AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A eatheter for topical process for topically cooling a spinal cord of a mammal, composed comprising the steps of:

using a catheter having of a high thermal conductivity and that has the an inner space to circulate a heat-cooling medium therein but has no hole connecting to the outside,

wherein it is inserted into an organ or a tissue of a mammal including a human and placed therein thereby to topical cool it selectively and continuously

transdermally inserting the catheter into the epidural cavity, the subdural cavity, or the subarachnoid cavity of the spinal cord,

and circulating the heat-cooling medium in the inner space of the catheter to cool the spinal cord across the dura mater or directly.

2. (currently amended): The catheter for topical process of topically cooling the spinal cord according to claim 1, wherein the catheter which is inserted transdermally into the epidural cavity, the subdural cavity, or the subarachnoid cavity of the spinal cord or the brain, and placed therein thereby to topical cool-topically cools the spinal cord or the brain-selectively and continuously.

3. (canceled).

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4. (currently amended): The eatheter for topical process of topically cooling the spinal

cord according to claim 1, wherein the heat-cooling medium is a cooling water or a cooling gas

is circulated as a heat-cooling medium.

5. (currently amended): The catheter for topical process of topically cooling the spinal

cord according to claim 1, wherein the catheter has having the shape of a U-form, a disk-form or

a swirl-form.

6. (currently amended): The process of topically cooling the spinal cord according to

claim 1, wherein the catheter is linked and arranged in series to A device comprising a reservoir

for preserving a heat-cooling medium, a pump for delivering said heat-cooling medium, and a

heat exchanger for cooling said heat-cooling medium, and a catheter according to claim 1,

wherein these are linked and arranged in series by a pipe-shaped tube for circulating said the

heat-cooling medium.

7-9. (canceled).

10. (currently amended): The eatheter for topical process for topically cooling the spinal

cord according to claim 2, wherein the heat-cooling medium is a cooling water or a cooling gas

is circulated as a heat-cooling medium.

11. (canceled).

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12. (currently amended): The eatheter for topical process for topically cooling the spinal cord according to claim 2, wherein the catheter having has the shape of a U-form, a disk-form or

a swirl-form.

13. (canceled).

14. (currently amended): The eatheter for topical process for topically cooling the spinal

cord according to claim 4, wherein the catheter having has the shape of a U-form, a disk-form or

a swirl-form.

15. (currently amended): The process of topically cooling the spinal cord according to

claim 2, wherein the catheter is linked and arranged in series to A device comprising a reservoir

for preserving a heat-cooling medium, a pump for delivering said heat-cooling medium, and a

heat exchanger for cooling said heat-cooling medium, and a catheter according to claim 2,

wherein these are linked and arranged in series by a pipe-shaped tube for circulating said the

heat-cooling medium.

16. (canceled).

17. (currently amended): The process of topically cooling the spinal cord according to

claim 4, wherein the catheter is linked and arranged in series to A device comprising a reservoir

for preserving a heat-cooling medium, a pump for delivering said heat-cooling medium, and a

heat exchanger for cooling said heat-cooling medium, and a catheter according to claim 4,

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wherein these are linked and arranged in series by a pipe-shaped tube for circulating said the

heat-cooling medium.

18. (currently amended): The process of topically cooling the spinal cord according to

claim 5, wherein the catheter is linked and arranged in series to A device comprising a reservoir

for preserving a heat-cooling medium, a pump for delivering said heat-cooling medium, and a

heat exchanger for cooling said heat-cooling medium, and a catheter according to claim 5,

wherein these are linked and arranged in series by a pipe-shaped tube for circulating said the

heat-cooling medium.

19. (new): The process of topically cooling the spinal cord according to claim 1, wherein

the high thermal conductive material of the catheter is stainless, titanium, aluminum, gold, silver,

or copper.

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